

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Please CANCEL claims 1-22 in their entirety.

23. (Once Amended) A molded optical component, comprising:
a supporting shaft section having a first cross-sectional area;
a connecting section integrally provided to the supporting shaft section and
extended in an axial direction of the supporting shaft section, and the connecting section having a
second cross-sectional area smaller than the first [[cross sectional]] cross-sectional area; and
an optical functional section integrally provided to the connecting section.

24. (Original) The molded optical component of claim 23, wherein the sum weight of
the supporting shaft section and the connecting section is greater than the weight of the optical
functional section.

25. (Original) The molded optical component of claim 23, wherein the sum weight of
the supporting shaft section and the connecting section is 70% or more of the total weight of the
molded optical component.

26. (Original) The molded optical component of claim 23, further comprising:

an information recording section provided on the supporting shaft section.

27. (Original) The molded optical component of claim 23, further comprising:
an information recording section provided on the connecting section.

28. (Original) The molded optical component of claim 23, wherein the sectional form
of the supporting shaft section is shaped in almost a circle.

29. (Original) The molded optical component of claim 23, wherein the sectional form
of the supporting shaft section is shaped in almost a trapezoid.

30. (Original) The molded optical component of claim 23, wherein the sectional form
of the supporting shaft section is shaped in almost a semicircle.

31. (Original) The molded optical component of claim 30, wherein a parallel flat
portion that is almost in parallel with a chord section of the semicircle is formed on a part of an
arc section of the semicircle of the supporting section.

32. (Original) The molded optical component of claim 31, wherein a protruded
portion that is protruded from the parallel flat portion and is shaped in almost a truncated square
pyramid is formed on the parallel flat portion.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

394832_1.DOC

33. (Original) The molded optical component of claim 32, wherein the protruded portion has four side sections comprising a pair of longitudinal sides which face each other in the longitudinal direction of the supporting shaft section and a pair of lateral sides which face each other in the lateral direction, and wherein an angle formed between the longitudinal side and the parallel flat section is made to be 45° or less.

34. (Original) The molded optical component of claim 30, wherein a normal line on a chord section of the semicircle almost agrees with an optical axis on an optical functional surface of the optical functional section.

35. (Original) The molded optical component of claim 23, wherein a protruded portion is formed on the supporting shaft section.

36. (Original) The molded optical component of claim 35, wherein the protruded portion is shaped in a truncated square pyramid.

37. (Original) The molded optical component of claim 35, wherein a corner section of the protruded portion is chamfered.

38. (Original) The molded optical component of claim 23, wherein a concave portion is provided on the supporting shaft section.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

394832_1.DOC

39. (Original) The molded optical component of claim 23, wherein a stress-concentration portion is formed on the connecting section.

40. (Original) The molded optical component of claim 39, wherein the stress-concentration portion is a V-shaped concave portion shaped in a direction perpendicular to an optical axis of an optical functional surface of the optical functional section.

41. (Original) The molded optical component of claim 39, wherein the stress-concentration portion is a V-shaped concave portion shaped in a direction almost equal to a direction of an optical axis of an optical functional surface of the optical functional section.

42. (Original) The molded optical component of claim 23, wherein an index section is provided on the connecting section on a basis of a distance from a center of the optical axis of the optical functional section.

43. (Original) The molded optical component of claim 42, wherein the index section is formed by cutting a mark in the connecting section.

44. (Original) The molded component of claim 42, wherein the index section is formed by protruding a mark from the connecting section.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

394832_1.DOC

45. (Original) The molded optical component of claim 42, wherein the index section is formed to be a straight line extended along the widthwise direction of the connecting section.

46. (Original) The molded optical component of claim 42, wherein the index section is formed to be a locus of a circle having a prescribed radius whose center is on the optical axis.

47. (Once Amended) A method of handling a molded optical component, comprising steps of:

molding an optical component by a mold which is provided with a first resin flow path having a first [[cross sectional]] cross-sectional area, a second resin flow path which locates in continuation to the first resin flow path in a resin flow direction and has a second [[cross section]] cross-sectional area smaller than the first cross sectional area, and an optical functional section forming section which locates in continuation to the second resin flow path in a resin flow direction;

taking out the molded optical component from the mold, wherein the molded optical component comprises a supporting shaft section corresponding to the first resin flow path, a connecting section corresponding to the second resin flow path and an optical functional section corresponding to the optical functional section forming section; and

handling the molded optical component on a basis of the supporting shaft section.

48. (Original) The method of claim 47, further comprising:

cutting the supporting shaft section of the molded optical component.

49. (Original) The method of claim 48, wherein the supporting shaft section is cut out at a predetermined section.

50. (Original) The method of claim 49, wherein the supporting shaft section is cut out so as to have a predetermined length.

51. (Original) The method of claim 47, wherein the handling step is a step of positioning the molded optical component.

52. (Original) The method of claim 47, wherein the handling step is a step of holding the molded optical component.

53. (Original) The method of claim 47, wherein the handling step is a step of mounting the molded optical component.

54. (Original) The method of claim 47, wherein the handling step is a step of cutting the molded optical component.

55. (Once Amended) The method of claim 47, wherein the handling step comprises a [[stem]] step of assembling the molded optical component with another member and thereafter a step of cutting the connecting section.

394832_1.DOC

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

56. (Original) The method of claim 55, wherein the another member is a cartridge for conveyance.

57. (Original) The method of claim 55, wherein the another member is an optical pickup unit.

58. (Original) The method of claim 47, wherein the handling step is a step of recording information on the supporting shaft section.

59. (Original) The method of claim 47, wherein the handling step is a step of recording information on the connecting section.

60. (Original) The method of claim 58, wherein the information is a reference number of a mold.

61. (Original) The method of claim 58, wherein the information is a reference number of a cavity.

62. (Original) The method of claim 58, wherein the step of recording information is conducted by marking.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

394832_1.DOC

63. (Original) The method of claim 58, wherein the step of recording information is conducted by printing.

64. (Original) The method of claim 58, wherein the step of recording information is conducted by pasting.

65. (Original) The method of claim 47, wherein the first resin flow path is adapted to provide a protruded portion or a concave portion on the supporting shaft section, the protruded portion or the concave portion is used as a guide for positioning.

66. (Original) The method of claim 47, wherein the first resin flow path is adapted to provide a protruded portion or a concave portion on the supporting shaft section, the protruded portion or the concave portion is used as a guide for handling.

Please CANCEL claims 67-83 in their entirety.

84. (Original) A method of assembling an optical pickup unit, comprising steps of:
mounting the optical functional section of the molded optical component
described in claim 23 on an optical pickup apparatus while holding the supporting shaft section
of the molded optical component; and
cutting the connecting section.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

394832_1.DOC

85. (Original) The method of claim 84, wherein in the cutting step, the connecting section is removed from the lens section so that the lens section becomes a circle-shaped lens section provided with no portion protruded from the circle-shaped lens section.

86. (Original) The method of claim 84, wherein the weight of the supporting shaft section is greater than that of the optical functional section.

87. (Original) The method of claim 84, wherein the volume of the supporting shaft section is greater than that of the optical functional section.

88. (Original) A method of assembling a package, comprising steps of:
mounting the optical functional section of the molded optical component described in claim 23 on a container while holding the supporting shaft section of the molded optical component; and
cutting the connecting section.

89. (Original) The method of claim 88, wherein the weight of the supporting shaft section is greater than that of the optical functional section.

90. (Original) The method of claim 88, wherein the volume of the supporting shaft section is greater than that of the optical functional section.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

394832_1.DOC